

Before the
Maryland Public Service Commission

Case No. 8980

Testimony

of

Frederick John Meyer

on Behalf of

Reliant Resources, Inc.

December 5, 2003

**TESTIMONY OF FREDERICK JOHN MEYER
ON BEHALF OF RELIANT RESOURCES, INC.**

1 **I. INTRODUCTION**

2 **Q: PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.**

3 **A:** My name is Frederick John Meyer. I am Vice President of Regional
4 Transmission Organization Activities for Reliant Resources, Inc. (“Reliant”). My
5 business address is 1000 Main Street, Houston, Texas 77001. My education and
6 professional qualifications are set forth below.

7 **Q: PLEASE DESCRIBE YOUR PROFESSIONAL AND EDUCATIONAL**
8 **BACKGROUND AND EXPERIENCE.**

9 **A:** I have spent 32 years working for Reliant Energy or its predecessors. I worked
10 for over 25 years for the electric utility, Houston Lighting & Power Co.
11 (“HL&P”) in various positions including Manager of Engineering Design and
12 Development, General Manager Energy Control and Dispatching, General
13 Manager of Gas and Oil Plant Operations, General Manager Engineering, and
14 General Manager Transmission Operations and Planning.

15 In addition, I have held positions for Houston Industries Energy (International) as
16 Vice President of Operations, for Reliant Energy Power Generation as Vice
17 President of Commercial Development and my current position with Reliant
18 Resources.

19 Currently I serve as a board member of the North American Energy Standards
20 Board (“NAESB”) and the Electric Reliability Council of Texas (“ERCOT”) and
21 am a member of the Stakeholders Committee for the North American Electric

1 Reliability Council (“NERC”). I helped set up the commercial standards
2 organization which evolved into NAESB, led an ERCOT stakeholder group in the
3 design of the original ERCOT wholesale market, served on the Technical
4 Advisory Committee of ERCOT (“TAC”) for eight years, two years as Chairman,
5 and have previously served on the Planning Committee, the Operating
6 Committee, and the Market Committee at NERC.

7 I earned a Bachelor of Science in Electrical Engineering in 1970 from Lamar
8 University and a Master of Science degree in Electrical Engineering from the
9 University of Houston in 1980. I am a Registered Engineer in the State of Texas.

10 **Q: HAVE YOU PREVIOUSLY TESTIFIED IN FEDERAL OR STATE**
11 **COMMISSION PROCEEDINGS?**

12 **A:** Yes. I have made appearances in technical conferences before the Federal Energy
13 Regulatory Commission (“FERC”) on RTO design, market design, transmission
14 interconnection policies, congestion management design, and RTO/ISO
15 operations. I also submitted testimony to FERC regarding PJM’s local market
16 power mitigation methodology and its effect on Reliant’s chronically cost capped
17 units in the PJM region.

18 I have testified numerous times before the Texas Public Utility Commission
19 (“PUCT”) in transmission line need determinations, tariffs for qualified facilities,
20 transmission access, interruptible load sales, economy power sales, standby power
21 arrangements, and fuel reconciliation hearings. All of this testimony was done
22 while working for HL&P on their behalf.

1 In addition, I have testified before the PUCT regarding the justification of the
2 ERCOT ISO and its protocols that apply both to the market and the ISO
3 operation. I have testified before the Nevada Public Utility Commission on
4 generation contracts on behalf of Sierra Pacific Corporation. Finally, I have
5 provided expert opinions and engaged in discussions before the Florida Public
6 Service Commission and its Staff at various technical workshops.

7 **Q: PLEASE DESCRIBE RELIANT FOR THE RECORD.**

8 **A:** Reliant has its principle place of business at 1000 Main Street in Houston, Texas.
9 Reliant owns and operates unregulated electric generation facilities; typically
10 either exempt wholesale generators or qualified facilities. Reliant, through
11 various subsidiaries, owns substantial generation assets in the PJM control area.
12 Reliant Energy Services, Inc., a subsidiary of Reliant Resources, Inc, is the PJM
13 member. Reliant is also a competitive retail supplier serving customers in certain
14 parts of the PJM control area.

15 **Q: WHAT IS THE PURPOSE OF THE TESTIMONY YOU ARE**
16 **PRESENTING IN THIS CASE?**

17 **A:** I am testifying in support of Reliant's Regional Reliability Commitment ("RRC")
18 proposal, as described in the testimony of Mr. Bruce Bleiweis. I will discuss why
19 the RRC is a reasonable market-based and forward-looking approach to resource
20 adequacy.

1 **II. SUMMARY**

2 **Q: PLEASE SUMMARIZE YOUR CONCLUSIONS.**

3 **A:** The Mid-Atlantic Conference of Regulatory Utilities Commissioners
4 (“MACRUC”) was correct in its January 10, 2003 assessment to FERC on
5 Standard Market Design that the PJM ICAP market "must eventually be
6 replaced.” Resource adequacy is best addressed on a regional basis. The best
7 course of action for the Commission would be to adopt the RRC as its preferred
8 methodology and support the RRC at the various regional stakeholder
9 proceedings. In this manner, the Commission has the opportunity to take a
10 leading role in the development of a region-wide resource adequacy model and
11 stimulate the process toward a solution.

12 In considering a well-functioning resource adequacy model, policymakers should
13 ensure that the model has the following characteristics: 1) a sufficiently forward-
14 looking design; 2) elimination of significant barriers to entry; 3) enforceability to
15 ensure that there are no free riders; 4) utilization of asset-backed and deliverable
16 resources that are able to produce energy (or not consume energy in the case of
17 load acting as a resource), including existing and potential new resources; and 5)
18 accommodates retail access programs. These design features are generally similar
19 to those made by MACRUC in their January 10, 2003, comments to FERC
20 regarding resource adequacy. Reliant’s RRC model is consistent with these
21 principles and utilizes a market-based auction mechanism to achieve resource
22 adequacy.

1 **III. DEFINING RESOURCE ADEQUACY**

2 **Q: WHAT IS RESOURCE ADEQUACY?**

3 **A:** Resource adequacy can be viewed from a short-term (i.e., operating margin) and
4 long-term (i.e., planning margin) perspective. On a short-term, or day-to-day
5 basis, resource adequacy is best viewed as a means of ensuring that there are
6 sufficient resources online to meet projected load for the next hour or day given a
7 reasonable level of contingencies. To ensure resource adequacy in the hourly and
8 day-ahead markets, the control area operator must procure sufficient energy and
9 ancillary services to meet the forecasted load plus operating margin to cover
10 unanticipated demand or loss of supply in order to maintain the reliability of the
11 operating system.

12 A long-term view of resource adequacy looks at the market on a forward-looking
13 basis and includes the planning margin. This long-term view is based on future
14 supply and demand conditions and seeks to determine whether enough resources
15 are available to meet projected load and cover the various contingencies (e.g.,
16 expected and unplanned outages) and load forecast inaccuracy, such as weather
17 uncertainty and unexpected load growth, that exist over a reasonable time frame
18 in the future. As discussed in this testimony, resource adequacy refers to the
19 process of ensuring sufficient system resources are available on a long-term basis
20 to meet projected peak demand and provide sufficient reserves over and above
21 projected peak demand to ensure reliable service.

22 **Q: IN THE SUMMARY ABOVE YOU IDENTIFY CERTAIN DESIGN**
23 **ELEMENTS THAT SHOULD BE INCORPORATED INTO ANY**

1 **RESOURCE ADEQUACY MARKET DESIGN. PLEASE DESCRIBE**
2 **WHAT “FORWARD LOOKING” MEANS AND WHY IT IS IMPORTANT**
3 **THAT THE CAPACITY MARKET DESIGN BE FORWARD LOOKING.**

4 **A:** The term “forward looking” means that the adequacy requirement is designed to
5 ensure resource adequacy in some future year. Ideally, the forward year (or
6 “target year”) should be established generally consistent with construction lead
7 times for new generation. This has two key benefits that promote efficiency in
8 capacity markets. First, the forward requirement introduces market signals in the
9 form of capacity payments that permit market participants to respond to changes
10 in supply and demand in a timely fashion. A resource adequacy mechanism that
11 does not provide the opportunity for new entrants to rectify an imbalance between
12 supply and demand based on known and reliable price signals cannot meet this
13 goal and results in unnecessary capacity market volatility. Second, if the forward
14 year is consistent with generation construction lead times, then new entry can
15 participate in the auction thus mitigating any potential market power concerns in
16 the capacity market. In essence, the forward requirement removes barriers to
17 entry and allows a capacity auction to be held without the need for unnecessary
18 regulatory intervention in the form of price caps on the auction.

19 **Q: DESCRIBE WHAT YOU MEAN BY ELIMINATING SIGNIFICANT**
20 **BARRIERS TO ENTRY.**

21 **A:** A barrier to entry exists when potential resources or suppliers are unable to enter
22 the market because of certain market designs or requirements, including market
23 rules. A barrier to entry may create the opportunity for an existing market

1 participant to exert market power. In creating a properly designed resource
2 adequacy mechanism, a capacity market should procure capacity in a sufficiently
3 forward manner to permit new resources to participate in the market and even set
4 the market-clearing price when needed. Failure to do so creates a significant
5 barrier to entry which may produce the potential for existing resources to exert
6 market power in the capacity market and may increase the need for price capping
7 in the capacity market. By adopting a forward-looking design that eliminates this
8 barrier to entry, participants and regulators can rely on market-forces to incent
9 appropriate behavior and eliminate the need to utilize price caps.

10 **Q: PLEASE DESCRIBE WHAT YOU MEAN BY AN “ENFORCEABLE”**
11 **DESIGN TO ENSURE THAT THERE ARE NO FREE RIDERS.**

12 **A:** A properly designed resource adequacy model will ensure that sufficient capacity
13 is procured to meet peak demand plus reserves for all load serving entities
14 (“LSEs”). Otherwise, an LSE that believes the region has sufficient capacity to
15 ensure reliable service has the incentive to “free ride” on the capacity of others
16 rather than procure sufficient reserves to meet its own load. If enough LSEs
17 adopt this approach, reliability will be jeopardized. A reasonable method to
18 enforce this requirement upon LSEs is to have PJM take the role as the
19 clearinghouse for resource adequacy. In other words, permit PJM to arrange for
20 the capacity necessary for resource adequacy on a system-wide basis. Under this
21 design, LSEs do not have the option to be resource inadequate. Rather, the RTO
22 arranges for the regional capacity need and allocates the costs to all LSEs serving
23 load in the region based on the individual LSE’s load ratio share of total regional

1 load. Ensuring that all participants share this responsibility eliminates the free
2 rider problem and the need for penalties against LSEs that may not comply.

3 **Q: PLEASE DESCRIBE THE IMPORTANCE OF “ASSET-BACKED AND**
4 **DELIVERABLE ASSETS” IN A RESOURCE ADEQUACY MODEL.**

5 **A:** Resource adequacy is about having resources available to meet peak demand with
6 sufficient reserve capacity to handle contingencies that may arise. As such, only
7 verifiable generating resources and demand response should be counted toward
8 meeting the requirement. Moreover, because resource adequacy is about tangible
9 resources, it is critical that those assets be “deliverable” to the loads that are
10 relying on them. Asset-backed and deliverable assets provide the assurance that
11 there is sufficient “iron on the ground” available to the market.

12 **Q: PLEASE EXPLAIN HOW A RESOURCE ADEQUACY MODEL WILL**
13 **ACCOMMODATE RETAIL ACCESS PROGRAMS.**

14 **A:** A properly designed resource adequacy model, such as the RRC model, will
15 promote a robust retail competitive market by:

- 16 1. Allowing retail providers to fulfill capacity obligations at known prices three
17 years forward. This in turn allows known supply costs to be included in retail
18 customer price offerings. Removing supply cost uncertainty associated with
19 procuring adequate capacity for LSEs will create a level retail playing field.
- 20 2. The RRC model will avoid the creation of new stranded costs for utilities
21 since capacity is procured for the entire region in the most cost effective
22 manner without the need for long-term contracts. Allowing individual utilities
23 to construct capacity to meet their own resource adequacy requirements may

1 result in the creation of new stranded costs if the cost of constructing that
2 capacity later exceeds market clearing prices.

3 3. A central procurement approach will reduce creditworthiness concerns on the
4 part of retail service providers that may not be able to contract bilaterally due
5 to their credit situation.

6 Therefore a forward-looking resource adequacy model, such as the RRC model,
7 can eliminate much of the uncertainty faced by LSEs in a competitive retail
8 market by addressing the need for adequate capacity procurement, elimination of
9 new stranded costs, and creditworthiness concerns.

10 **Q: DO YOU RECOMMEND A MODEL THAT CONTAINS THE DESIGN**
11 **ELEMENTS DESCRIBED ABOVE?**

12 **A:** Yes. Reliant's RRC model, as described by Mr. Bleiweis, is consistent with these
13 design elements.

14 **IV. THE RRC IS A REASONABLE APPROACH TO RESOURCE**
15 **ADEQUACY**

16 **Q: ARE THERE PERFORMANCE INCENTIVES TO ENSURE RESOURCE**
17 **COMPLIANCE WITH THE AUCTION RESULTS?**

18 **A:** Yes. Resources selected in the auction have an obligation to bid their power into
19 the appropriate market in the target year. If the resource fails to comply with the
20 capacity obligation when called upon, it will not receive the RRC capacity
21 payment for the period of time it is not committed to the market. In addition,
22 resources selected in the RRC auction will be subject to existing rules and
23 regulations, including FERC's Market Behavior Rules (105 FERC ¶ 61,218

1 (2003)). Should a resource act in a manner that is inconsistent with the applicable
2 rules, the RTO may alert FERC or file a complaint at FERC. FERC would then
3 have the option of deciding on a penalty including the revocation of market-based
4 rate authority, additional or new restrictions regarding the resource owner's code
5 of conduct, the disgorgement of profits, or other administrative penalties. These
6 potential penalties provide significant incentives for resources to ensure they are
7 available to the market.

8 **Q: SHOULD THE RRC INCLUDE ADDITIONAL PUNITIVE PENALTIES**
9 **FOR NON-COMPLIANCE?**

10 **A:** No. Further penalizing resources that are unavailable to the market because of a
11 planned outage or catastrophic forced outage is not appropriate. Such events are
12 certain to happen over time. However, reserve margins are constructed to include
13 planned and forced outages, meaning that there should be ample capacity
14 available despite an outage. Furthermore, additional penalties will force resources
15 to consider such potential damages in their RRC auction bids, ultimately driving
16 prices higher for consumers.

17 **Q: WHAT IF THERE ARE NOT ENOUGH RESOURCES IN THE AUCTION**
18 **TO CLEAR THE MARKET?**

19 **A:** If the auction is unable to be completed due to an insufficient amount of resources
20 to meet the demand projected by PJM, then, PJM should clearly communicate the
21 results of the auction to the market, allow time for additional resources to qualify,
22 and redo the auction in a timely manner.

1 **Q: MR. BLEIWEIS NOTED THAT LSES CAN SELF-ARRANGE THEIR**
2 **CAPACITY. PLEASE EXPLAIN WHY THIS IS IMPORTANT AND**
3 **PROVIDE AN EXAMPLE HOW SELF-ARRANGEMENT WOULD**
4 **WORK.**

5 **A:** Ensuring that LSEs can self-arrange capacity to fulfill capacity obligations is
6 important because it allows LSEs who own, or otherwise control, generation
7 capacity the flexibility to hedge their capacity costs. While no LSE should be
8 required to self-arrange, having this option available is a beneficial and non-
9 discriminatory market construct for LSEs that own or control resources, including
10 municipal utilities.

11 As Mr. Bleiweis described, the self-arranged capacity resources can be in the
12 form of resource ownership, bilateral purchases, contracts for differences, or other
13 purchases. Once entering the contract(s) for capacity, the LSE or the owner of the
14 resource would bid into the RRC auction as a price taker by bidding the capacity
15 at \$0.00/kW-month. The auction would clear and, as a price taker, the LSE's self-
16 arranged capacity would be among the resources chosen in the auction. As such,
17 all self-arranged capacity resources chosen in the auction would have the same
18 obligations and requirements of other resources chosen in the auction. At the time
19 of the capacity obligation (*i.e.*, Year 3), LSEs would be charged for capacity
20 based on their load ratio share. If the LSE's actual load ratio share is equal to the
21 self-arranged capacity over the target year, the LSE will simply be "paying" itself
22 for the capacity it had previously self-arranged.

1 To illustrate, consider an RRC auction with a clearing price of \$1.00/kW-month.
2 Suppose “Maryland LSE Co.” has previously self-arranged 100 MW of capacity
3 from it’s own 100 MW generating unit. Maryland LSE Co. bid the 100 MW
4 generating unit into the RRC at \$0.00/kW-month. Since the unit was bid into the
5 auctions a price taker, the unit was selected and will be paid at the \$1.00/kW-
6 month clearing price. Further presume that during the target year, Maryland LSE
7 Co.’s load and reserve obligations equaled the 100 MWs it self-arranged. Over
8 the course of the target year it would pay the equivalent of \$1.00/kW-month for
9 its capacity obligations as an LSE. As a resource selected in the RRC auction,
10 Maryland LSE Co. would also be paid the equivalent of \$1.00/kW-month for
11 providing capacity to the region. Hence, the self-arranging LSE is effectively
12 hedged. Of course, LSEs will pay for any capacity needs above what they may
13 have previously procured based on their load ratio share at the auction-clearing
14 price. Conversely, LSEs will be paid for any capacity above what they need
15 based on their load ratios share at the auction-clearing price.

16 **Q: MR. BLEIWEIS DISCUSSES HOW THE PAYMENTS TO RESOURCES**
17 **WOULD BE COLLECTED FROM CUSTOMERS UNDER THE RRC**
18 **PROPOSAL. WHY IS IT IMPORTANT TO ALLOCATE THE PAYMENT**
19 **ACROSS INDIVIDUAL MONTHS?**

20 **A:** Allocating the capacity payments on a monthly basis to reflect the relative
21 value of capacity is important because it provides the appropriate incentive to
22 resources to make themselves available when they are most needed. In other
23 words, because demand is generally highest in the summer months, capacity

1 payments should normally be higher to reflect the increased demand. A
2 reasonable quantitative method to accomplish this is to shape the annual price into
3 a monthly payment in proportion to a Loss of Load Probability (“LOLP”)
4 distribution. This will result in larger payments in peak months when the value of
5 capacity is higher. The capacity payment is made to resources following the
6 month for which the capacity was made available. The cost is allocated to LSEs
7 based on their actual load ratio share of the region and is allocated commensurate
8 to the value the capacity has at the time of the obligation. Mr. Bleiweis, in
9 Exhibit C of his testimony, includes an illustration of the collection and
10 distribution of funds using the LOLP approach.

11 **Q: THE EXAMPLE IN EXHIBIT C OF MR. BLEIWEIS'S TESTIMONY**
12 **SPREADS THE CAPACITY PAYMENTS ACROSS ALL TWELVE**
13 **MONTHS OF THE YEAR. IS THIS A NECESSARY REQUIREMENT OF**
14 **RRC?**

15 **A:** No. If PJM determines via its LOLP analysis that only four months, for example,
16 are critical for resource adequacy planning purposes, then the model can easily be
17 adapted to spread the capacity payments over just four months rather than over all
18 twelve months. In addition, PJM may determine that this results in more effective
19 load resource participation.

20 **Q: IN DISCUSSING RESOURCE ADEQUACY PROPOSALS, WHY IS THE**
21 **TARGET YEAR SOMETIMES REFERED TO AS A COMMITMENT**
22 **PERIOD?**

1 **A:** When discussing resource adequacy the terms “target year” and “commitment
2 period” are often used interchangeably. However, these terms are not the same
3 and mean different things in terms of capacity procurement. As discussed earlier,
4 long-term resource adequacy is based on future peak demand and seeks to
5 determine whether enough resources are available to meet projected demand, as
6 well as cover contingencies and load forecast inaccuracy that exist over a
7 reasonable time frame in the future. It is unnecessary for reliability reasons to
8 procure resources now, for years beyond the single target year (such as Year 3 in
9 Reliant’s RRC proposal). If in fact resources were procured for a longer period of
10 time than the target year, say a three-year commitment period, PJM would be
11 making capacity commitments today for a period as far as five years into the
12 future. If it only takes three years to build a new resource to meet the reliability
13 needs of PJM, there is no need to procure for a time period several years beyond
14 the time frame that actual entry decisions need to be made.

15 Additionally, procuring resources beyond a single target year requires a longer-
16 term load forecast. Load forecasting three years forward is already a difficult
17 charge, but forecasting up to five years out and making financial commitments for
18 longer periods of time requires consumers to bear an unreasonable amount of risk.
19 The resulting load may be significantly lower than that forecasted and thus an
20 over commitment of resources would have been made if a multi-year commitment
21 period is used. This could result in several years of capacity payments that are
22 unnecessary from a reliability standpoint, which in turn could create additional
23 stranded costs.

1 **Q: WHY ARE RESOURCES CHOSEN IN THE RRC AUCTION PAID THE**
2 **AUCTION-CLEARING PRICE INSTEAD OF THE PRICE THE**
3 **INDIVIDUAL RESOURCE BID?**

4 **A:** Since creating inefficiencies in any market tends to lead to greater costs, the RRC
5 model is designed to provide the most economically efficient means of assuring
6 resource adequacy by producing a single market-clearing price for resources on a
7 three-year forward basis. Since a single price auction reflects the price at which
8 the market values all the resources necessary to fulfill a projected level of demand
9 inefficiencies are reduced. Paying resources on an as-bid basis on the other hand
10 tends to create inefficiencies in the market. For example, bidders whom normally
11 would be price takers are forced to bid what they think the clearing price will be
12 rather than simply bidding in their capacity at \$0.00/kW-month as a price taker in
13 a single-clearing price market would bid.

14 **Q: DOES THE RRC MODEL WORK IN CONCERT WITH COMPETITIVE**
15 **RETAIL MARKETS?**

16 **A:** Yes. The total annual cost to market participants is known well in advance (*i.e.*, 3
17 years), such that an LSE can include an estimate of its capacity costs in its retail
18 price offers for its customers. Furthermore, as described above, an LSE may
19 hedge its capacity costs any number of years into the future by self-arranging all
20 or a portion of its expected load via bilateral contracts. Also, the model
21 accommodates load-shifting concerns associated with retail competition because
22 the cost of resource adequacy to the LSE is based on actual load ratio share usage,
23 thus there is no requirement for an LSE to be able to accurately forecast their load

1 three years in the future in order to know the price that they will be paying in that
2 year. Furthermore, the RRC will produce less volatile energy prices while
3 maintaining appropriate price signals to promote maintenance and construction of
4 generation and load participation.

5 **Q: DOES THE RRC MODEL WORK IN CONCERT WITH MARKET**
6 **POWER MITIGATION PLANS?**

7 **A:** Yes. A three-year forward period is sufficiently long to allow participation in the
8 market by both existing and planned generation, therefore eliminating barriers to
9 entry and the need for price mitigation in the capacity market. The Independent
10 Market Monitor would continue to monitor for potential flaws in the resource
11 adequacy market.

12 **Q: IS THE RRC AUCTION PROPOSAL CONSISTENT WITH MACRUC'S**
13 **GENERAL PRINCIPLES TO GUIDE REGIONAL EXPLORATION OF**
14 **NEW CAPACITY MECHANISMS?**

15 **A:** Yes. In MACRUC's January 10, 2003 comments to FERC on Standard Market
16 Design, MACRUC members, including the then-sitting Commissioners of this
17 Commission, suggested six principles to guide the regional exploration of new
18 capacity mechanisms designed to provide resource adequacy. A copy of
19 MACRUC's comments is attached as Exhibit A. With the exception of the
20 mechanism used in Principle Number 5 below, the RRC auction would meet
21 MACRUC's stated principles set forth in Exhibit A, pp. 40-41, including the
22 following:

23 1. A recognition that capacity resources may be offered
24 through generation or demand response and that such resources

1 should primarily be offered and obtained on a long-term, forward-
2 looking basis through a combination of self-ownership, bilateral
3 contracts, and auction markets.
4

5 Reliant's RRC auction proposal, as I have explained, responds to market demand
6 by providing a three-year forward-looking auction that works in combination with
7 self-ownership and bilateral contracts.

8 2. Market based pricing of capacity, rather than
9 administratively or regulatory-based rate determination.
10

11 The auction process enables the market to set the price of capacity without the
12 need for rate caps or other regulatory devices.

13 3. Adequate assurances that market power and gaming
14 attempts will be deterred, or else rapidly detected, corrected, and
15 reversed, accomplished by provisions that ensure that the market
16 monitor has the necessary tools to forestall or reverse such
17 attempts, and that such attempts will be promptly reported to the
18 FERC Office of Market Oversight and Investigation.
19

20 The three-year, forward-looking auction process would make it difficult for
21 parties to game the system. Nevertheless, because PJM would continue to serve
22 as market monitor, it could ensure against gaming and market power abuse. As I
23 explain above, if a resource violates the market rule, PJM can report the violation
24 to FERC or file a complaint.

25 4. RTOS/ITPs should have both legal and physical rights to
26 compel committed reserves to act in accordance with their
27 commitments (i.e., to provide capacity resources to the system).
28 Reliance on third party contract enforcement is not sufficient.
29

30 As I indicate above, the auction process would compel all LSEs to procure
31 sufficient capacity to meet peak load and would require resources selected in the

1 auction to bid their capacity into the market in the target year. PJM will be able to
2 enforce performance or seek assistance from FERC.

3 5. Financial incentives and penalties as well as ITP
4 enforcement powers which align the financial and operational
5 interests of capacity holders with the reliability interests of the
6 system, and which encourage owners of capacity or demand
7 responsive resources to efficiently operate, maintain, and schedule
8 facilities in a way which makes such resources available to load
9 when needed.

10
11 As I previously mentioned, if the resource fails to comply with the capacity
12 obligation when called upon, it will not receive the RRC capacity payment for the
13 period of time it is not committed to the market. Furthermore, the penalties that
14 FERC would impose on any resource that acts inconsistently with the market
15 rules will provide the appropriate incentive for resources to operate efficiently and
16 provide load when needed.

17 6. Penalty or deficiency rates that approximate the
18 costs imposed on other stakeholders for non-compliance, with
19 penalty or deficiency revenues distributed in a way that encourages
20 capacity resource performance and discourages gaming or market
21 power abuse by sellers and buyers of capacity.

22
23 Although Reliant does not propose that PJM impose additional penalties, PJM and
24 FERC have ample tools to address non-compliance, as I have explained above.

25 **Q: WHAT SHOULD THE MARYLAND COMMISSION DO TO ENSURE**
26 **RESOURCE ADEQUACY IN PJM?**

27 **A:** The Maryland Public Service Commission can best address this issue by adopting
28 the RRC as its preferred methodology and support the RRC at the various
29 regional stakeholder proceedings.

1 **V. THE CURRENT PJM CAPACITY MARKET DESIGN IS FLAWED**

2 **Q: SHOULD RESOURCE ADEQUACY BE A PRESSING CONCERN IN THE**
3 **PJM REGION?**

4 **A:** Yes. As described by Mr. Bleiweis, the current capacity market results in the
5 volatile “boom-and-bust” cycle. It is important to remedy this approach with a
6 resource adequacy design that successfully supports long-term sustainable
7 markets. This means that a resource adequacy model must be sufficiently
8 forward-looking, eliminate the need for price capping in the capacity market, and
9 provide price certainty. Reliant’s RRC proposal accomplishes this goal.

10 **Q: DOES THIS CONCLUDE YOUR TESTIMONY?**

11 **A:** Yes.